

Recovery Plan Action Status

Plan Name: Recovery Plan for the Morro Shoulderband Snail and Four Plants from San Luis Obispo County

Plan Status: Final

Plan Date: 28-Sep-98

Lead Agency: USFWS

Lead Office: Ventura Fish And Wildlife Office

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Species	Action Priority #	Action #	Action Description	Action Status	Est. Initiation Date	Est. Completion Date	Responsible Parties	Work Type	Labor Type	Action Comments
Pismo clarkia (Clarkia speciosa ssp. immaculata)	1	1.3	Secure Pismo clarkia sites	Not Started			U.S. Fish and Wildlife Service, California Department of Fish and Game	Acquisition	Labor type not yet selected	Information for Pismo clarkia
Pismo clarkia (Clarkia speciosa ssp. immaculata)	1	1.4	Survey potential habitat to identify additional populations of Pismo clarkia	Not Started			To be determined	Research: Population Surveys	Contract, Internal Field Assistance, Species Expert	Information for Pismo clarkia
Pismo clarkia (Clarkia speciosa ssp. immaculata)	1	2.3.1	Control non-native species, including veldt grass and sea fig at Pismo clarkia sites	Not Started			California Department of Parks and Recreation, California Department of Fish and Game, Non- governmental organizations	Management: Habitat Maintenance and Manipulation	Contract	Information for Pismo clarkia
Pismo clarkia (Clarkia speciosa ssp. immaculata)	2	2.3.2	Modify roadside maintenance activities for Pismo clarkia	Unknown			California Department of Transportation, San Luis Obispo County, California, California Department of Fish and Game	Management: Habitat Maintenance and Manipulation, Other: Administration	Contract, Internal Technical Assistance	Information for Pismo clarkia
Pismo clarkia (Clarkia speciosa ssp. immaculata)	1	2.3.3	Expand and maintain conservationn seed collection for Pismo clarkia	Not Started			Rancho Santa Ana Botanic Garden	Management: Other	Contract, Internal Field Assistance	Information for Pismo clarkia
Pismo clarkia (Clarkia speciosa ssp. immaculata)	2	3.2.3.2	Evaluate the effects of livestock grazing regimes on Pismo clarkia populations	Unknown			U.S. Fish and Wildlife Service, California Department of Fish and Game	Research: Competition	Contract, Graduate Student, Species Expert	Information for Pismo clarkia
Pismo clarkia (Clarkia speciosa ssp. immaculata)	2	3.2.3.3	Study the reproductive biology of Pismo clarkia	Not Started			California Department of Fish and Game	Research: Other Information	Contract, Graduate Student, Species Expert	Information for Pismo clarkia

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Morro shoulderband (=Banded dune) snail (Helminthoglypta walkeriana), Pismo clarkia (Clarkia speciosa ssp. immaculata), Chorro Creek bog thistle (Cirsium fontinale var. obispoense), Indian Knob mountain balm (Eriodictyon altissimum)	2	4.1	Monitor populations to ascertain trends	Unknown			California Army National Guard, California Department of Parks and Recreation, U.S. Fish and Wildlife Service, California Department of Fish and Game	Research: Demographic Studies	Contract, Internal Field Assistance, Species Expert	Information for Pismo clarkia and Chorro Creek bog thistle. Not yet started for snail.
Morro shoulderband (=Banded dune) snail (Helminthoglypta walkeriana), Pismo clarkia (Clarkia speciosa ssp. immaculata), Morro manzanita (Arctostaphylos morroensis), Chorro Creek bog thistle (Cirsium fontinale var. obispoense), Indian Knob mountain balm (Eriodictyon altissimum)	2	4.2	Evaluate effectiveness of methods used to reduce threats	Unknown			U.S. Fish and Wildlife Service	Other: Regulations	Contract, Internal Technical Assistance, Species Expert	Information for Pismo clarkia and Chorro Creek bog thistle. Not started for snail.

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Morro shoulderband (=Banded dune) snail (Helminthoglypta walkeriana), Pismo clarkia (Clarkia speciosa ssp. immaculata), Morro manzanita (Arctostaphylos morroensis), Chorro Creek bog thistle (Cirsium fontinale var. obispoense), Indian Knob mountain balm (Eriodictyon altissimum)	3	5.1	Inform and consult with local lead agencies	Unknown			California Department of Parks and Recreation, U.S. Fish and Wildlife Service, California Department of Fish and Game	Management: General	Internal Technical Assistance	jmv 12-05. the service issued an intra-service biological opinion on the effects of prescribed burning in the vicinity of morro bay (1-8-99-FW-1) on october 20, 1998. it authorizes cdpr to conduct experimental prescribed burns in habitat tha contains morro shoulderband snail, morro manzanita, and indian knob mountain balm. Status is unknown for Pismo clarkia and Chorro Creek bog thistle. Ongoing current for snail.
Morro shoulderband (=Banded dune) snail (Helminthoglypta walkeriana), Pismo clarkia (Clarkia speciosa ssp. immaculata), Morro manzanita (Arctostaphylos morroensis), Chorro Creek bog thistle (Cirsium fontinale var. obispoense), Indian Knob mountain balm (Eriodictyon altissimum)	3	5.2.1	Hold public meetings	Unknown			California Department of Parks and Recreation, San Luis Obispo County, California, U.S. Fish and Wildlife Service, California Department of Fish and Game	Other: Administration	Internal Technical Assistance	Information for Pismo clarkia and Chorro Creek bog thistle. Status is complete for snail; Service held a NEPA scoping meeting that addressed the snail. The meeting was held in summer 2005.

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Morro shoulderband (=Banded dune) snail (Helminthoglypta walkeriana), Pismo clarkia (Clarkia speciosa ssp. immaculata), Morro manzanita (Arctostaphylos morroensis), Chorro Creek bog thistle (Cirsium fontinale var. obispoense), Indian Knob mountain balm (Eriodictyon altissimum)	3	5.2.2	Discourage plantings of other sp. Of manzanitas in Los Osos	Not Started			California Department of Parks and Recreation, San Luis Obispo County, California, California Department of Fish and Game	Management: Habitat Maintenance and Manipulation, Other: Information and Education	Internal Field Assistance, Species Expert, Volunteer	
Morro shoulderband (=Banded dune) snail (Helminthoglypta walkeriana), Pismo clarkia (Clarkia speciosa ssp. immaculata), Morro manzanita (Arctostaphylos morroensis), Chorro Creek bog thistle (Cirsium fontinale var. obispoense), Indian Knob mountain balm (Eriodictyon altissimum)	3	5.2.3	Encourage landscaping with local native vegetation	Unknown			U.S. Fish and Wildlife Service, California Department of Fish and Game, Non-governmental organizations	Other: Administration	Internal Technical Assistance	Status is unknown for Pismo clarkia and Chorro Creek bog thistle. Status for snail is Obsolete. For the snail, several products have been put out for the general public and work continues; however, we are trying to reduce movement of snails from undisturbed habitat into urban areas to minimize adverse effects to the snail.
Morro shoulderband (=Banded dune) snail (Helminthoglypta walkeriana), Pismo clarkia (Clarkia speciosa ssp. immaculata), Morro manzanita (Arctostaphylos morroensis), Chorro Creek bog thistle (Cirsium fontinale var. obispoense), Indian Knob mountain balm (Eriodictyon altissimum)	2	6.1	Reevaluate recovery criteria	Unknown			California Department of Parks and Recreation, U.S. Fish and Wildlife Service, California Department of Fish and Game	Other: Regulations	Contract, Internal Technical Assistance, Species Expert	Information for Pismo clarkia and Chorro Creek bog thistle

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